

PB-0009-1 CIP

<110> Walker, Michael G.
Volkmuth, Wayne
Klingler, Tod M.
Azimzai, Yalda

<120> POLYNUCLEOTIDES ASSOCIATED WITH CARDIAC MUSCLE FUNCTION

<130> PB-0009-1 CIP

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<210> 13

<211> 2379

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 058201CB1

<400> 13

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PB-0009-1 CIP

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<210> 14

<211> 1904

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 767447CT1

<400> 14

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tacttgattt tctcgagacc tttactatg gtgatgaata acaggacttg ctttcaagcc 1740
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<210> 15

<211> 968

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 5449893CB1

<400> 15

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<210> 16

<211> 1112

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2951269CT1

<400> 16

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cccactttg aagacgtgtg tttctgtatt tacacataaa tcatactatt gtatattaaa 540
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PB-0009-1 CIP

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<210> 17

<211> 1714

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 282977CB1

<400> 17

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<210> 18

<211> 806

<212> DNA

<213> Homo sapiens

<220>

PB-0009-1 CIP

<221> misc_feature

<223> Incyte ID No: 3178454CB1

<400> 18

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<210> 19

<211> 555

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3563859CT1

<400> 19

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ctcacctatg gcagctggta tcatcagccc tggctctccag ggagcccagg ccatgggctc 480
ttccccgtc cccactccag ccgcaagcat aactgaaaga aataaaaacc atcgggcctg 540
aaaaaaaaaa aaaaaa 555
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<210> 20

<211> 1159

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 985730CT1

<400> 20

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PB-0009-1 CIP

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<211> 878
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3684987CT1

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<210> 22
<211> 667
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 986166CT1

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cactcttcc ttttccctt ccagttctca cggtgactca aggaacaacg tgtgaaatga 240
aagacctcag gtgctgtatt ggctcttgac agctcttcag aagaaaatac ctctgcctg 300
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PB-0009-1 CIP

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gcaggaagct ttggagcaga gtcagtgcact atgtgaacct gcctcaacct ctgctccctg 420
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<210> 23

<211> 1421

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1887508CT1

<400> 23

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<211> 2630

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1006416CT1

<400> 24

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<210> 25
<211> 1039
<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 975169CT1

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<210> 26
<211> 1057
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 4152861CB1

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<211> 1363
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 986464CT1

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<210> 28

<211> 1513

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 118472CT1

<400> 28

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aaaaaaaaaa aaa 1513

<210> 29
<211> 627
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1314633CT1

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<210> 30
<211> 1606
<212> DNA
<213> Homo sapiens

<220>
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PB-0009-1 CIP

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<210> 31

<211> 2184

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2638878CT1

<400> 31

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<211> 1833

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<210> 33

<211> 1859

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<213> Homo sapiens

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<211> 2125

<212> DNA

<213> Homo sapiens

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<221> misc_feature

<223> Incyte ID No: 1623157CT1

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<211> 1686

<212> DNA

<213> Homo sapiens

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1686

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PB-0009-1 CIP

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PB-0009-1 CIP

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<211> 1689

<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 944140CT1

<400> 38

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<210> 39

<211> 1918

<212> DNA

<213> Homo sapiens

PB-0009-1 CIP

<220>

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<223> Incyte ID No: 3445829CB12

<400> 39

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<210> 40

<211> 1086

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3016490CT1

<400> 40

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<210> 41

<211> 3441

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 4151935CB1

<400> 41

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<211> 1461

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3719652CT1

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<213> Homo sapiens

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<400> 44
accctttcag taatcattca accaacgctt ccatgtctct actctgtcgt aacaaaggct 60
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gccgctaaat atatcccaag ccctggaaat ggcattggaa cagaaggaaat tagaccagga 180
acctggggca ggacttgaca gtctgatccg gactgggtcc agctgccaga acccaggatg 240
tgatgctgtt taccaaggcc ctgagagtga tgctactcca tgtacctacc acccaggagc 300
accccgattc catgagggga tgaagtcttg gagctgttgt ggcattcaga ccctggattt 360
tggggcattc ttggcacaac cagggtgcag agtcggtaga catgactggg ggaagcagct 420
cccagcatct tgccgccatg attggcacca gacagattcc ttagtagtgg tgactgtata 480
tgccagattt ccacttcctg cgtttaactg ggtgaaggcc agtcaaaact agcttcatgt 540
ccacattgtc tttgatggta accgtgtgtt ccaagcacag atgaagctct ggggggtaag 600
tgaagaccag gggacacaag agtgggaggg agatgggtga aagagcggct agactggaat 660
agagggtgtc ttgagggaa gaggttgtact aggaaaatgg aggttttctc ttca 714
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<210> 45
<211> 1434

PB-0009-1 CIP

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 466761CT1

<400> 45

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tcctcaagca agtgggaaat cggaaaagaa aaggacaggc attgtagga agcagaggat 180
aaagaattta gccaacaaaa gaaacaatct agtcaatctg ggtgctttta tttcctgggt 240
actctctaaa catggctcag agctgggtga gatgaagtag gtgaaacctc tgaaaagagt 300
ctagaaggca gtagagcaag tcccagacca gaaacatgct catcttttca tcgtaatgtg 360
ccactcggta ctatttggta atgtcactct atttttccta atcccatcct ttggtttgta 420
tttcataatt gtatataagg caccattttc taaaaatatg actagggtgt gacctaaagg 480
tttattctgt gaagatgagt aactggaaag aagctaacac tgcagtggga aggaaggaag 540
agagttgtcc aggtggtagt tcgacgtgtt ttgaatctag tccttctctac atggaggata 600
aaagctccta aagtccactc tgggtttgtg attttaatag aaatagaaag ggaaactata 660
gaccaatgga gatgaaaatc aggggctatc gacagatgga ggagaaataa ggtgctacat 720
agagaaagga agagggcaga aggctttccc tttccaaact gggtgagctg gggaagcctt 780
ggttcaggag agtggcactg cccacaactg ctttgtgggt tgtgcacttc cagccgcact 840
ctccccctcc agttgctgcc ttcagagccg tactgaagca cgagcttcaa taagacaagc 900
acacttcata gtgagagggc agcggtagca aagcctttca gagagactat ggattagaca 960
gaaatgattt gtgagaggaa gctggagtga acagcatgaa cagcgagtgt tacctgacag 1020
aggcaagaca gctagaagtg gcttcagatt tagaaacagc tgaggggagc aaagacggac 1080
tgtgtacaca gggagggagg atgtctatgg gcagagccct tggtgagtat catcaccaag 1140
aaaggcagtc cagagtagag atcagccgaa tatggaggct gaggtctgta gaactgggcc 1200
agagaggacc ttactgcctt agtagcataa gggctctggaa aagaagtttc tatctcacia 1260
caaaggaaaa agtgaaaagc aagggtggaac ttgaagatac gtcacgaaaa tcaactataaa 1320
agtctgattt atgtgtgatg tcaaatcaaa ctgaaatgaa gaatgagatt gagtatatct 1380
gtgggtgactg acctctgtat actagaaacc tcaacatctc tagaagagga aata 1434
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<210> 46

<211> 2298

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1644171CT1

<220>

<221> unsure

<222> 2159, 2169-2170, 2223-2245, 2248-2272, 2275-2277, 2279-2295

<223> a, t, c, g, or other

<400> 46

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gacttgctcc tggtttctct aaggggtggg gcagtgggtt aggacactcg acaactaaga 180
acaggagttc ccaggaagga caaggatctg catccccac tgccacttct ctgatgtgtt 240
cctcaaagct ggctcgaggg ctgcagccct tcacgggact caggagggga ctggttgggt 300
tatccaggta atttactctt ggaagtgact gtagtgaagg tcgtggaagg gctcagaggg 360
ttaattgggt tgcagtgcgt ctttgtctat tgcagtctt ggaaaactca gatcccaaag 420
gcgctgggtt tcagagagga cagtggagac cttgctcctt ttccttaggc cgccagtctc 480
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tcaaatttca gaggaggctg tttccacaac tcccctatgg aaacacttgg cagcggagtt 540
gctccttttg agtttccaca ccatggcttt tcctttcctt tcttctccat tccctgatgc 600
atcaacactt acttggagca atttccatagg agtcagaacc agcaccagcc actcgggtgtc 660
ggtggccacc aaggcttaac attgaccttc ccgcctgacc ttgatgcaga tgtccactga 720
acacaccgca ggaagccag ggccttcaat accaataagt gtgaatatgt gtgtatgttg 780
tccaagagag attagggaga tcacatagac tctagggagt agagaacttg taacagtctt 840
gcaaggctag catgcacggc tccacagcag gtggtgggga gcagaggggc aggacctgca 900
gggaagaagc agccttttga tggtgaaatg tgcattggtgc acagtctgtg catgcccagg 960
agaccagcc cgggtgcct cgaggggctc ctttgtacac agccagccgc ttctcttggg 1020
aacaagctgt cctggggggc ttaccacga ggcaggagtc aggatgcacc agctcagcac 1080
caggaagtca tcctggacc aggacagtgg aaaggcaggc agagggagag gcactctgag 1140
gtcaggcagg gtaagccagt tggcagtcag gttagggtcta tgaggagaac ctcgagttag 1200
gaattcccgg ttctcagaat tggtatcact ctggtgcatt ctgtcacagg ggcggttgcg 1260
tttggctttg tggaggcct ggacccttcc acaagaacac ccgaggttcc agggcactca 1320
ggacaatgtt tccaaggaaac gagtgcacca ggaaagaaca gtgagttctg caaggggcat 1380
ccacggagcc tgtgatagg gctgatgaga tggaaatctgt cctggacttt tcttctcatt 1440
aaccaccctc cgcaaaccct agaaccctc gcctcatctc tgtactgtct gccctcttgg 1500
gggatggggc ctcccacttt cccctgcctg ctctccatg ctgtgagctg ctttggcaga 1560
tctgtttttc tgtgtagtca ggggaaaaaac aaaaaaagat gcacaactgt gtgggcattg 1620
tcatagctgt tgggtgcacc actgctttgg gggaaatggc tgggatgagg ctaatacatt 1680
catgcaatat ttatattttc aggggggctg gttatcagca tgctctccct gccttgggct 1740
tttcttttccg tcatgttttc cttttcgtgt tccttctctg atttctcttg tctctgctgc 1800
tcacaggcct gccatcagt cagtacagat actcagtgte tggtttctgg ccagctccgt 1860
ggagggggct ttaagcagaa ttctgactct ttgggggtggg ggattaggaa ctgggggaaa 1920
cttaatgatc cagagattcc cccaagagga gtgtctggaa ggatctgtgc ctggacagtg 1980
gcagaacctt tccagtgttc ttttggttct gatttcatca gtctcaataa agttccgatc 2040
tctctttaa aaaaaaa aacaaaaaa aaaaaaa aaaaaaa agacaaaaa 2100
aaaaaagggg gcccccaaa agggggggga ccccgccca agcgcgaaag cgcctcaana 2160
gctttcccn gaaaaaattt tcccccccc aaaattccag cccgctgggt gagtcgcctg 2220
tcnnnnnnnn nnnnnnnnn nnnnnctnnn nnnnnnnnnn nnnnnnnnnn nnggnnnn 2280
nnnnnnnnnn nnnnnccc

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<210> 47

<211> 728

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3009806CB1

<400> 47

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gacaataggg agaatggaga acgtggaggt cttcacgcgt gagggcaaag gaaggggtct 60
gaaggccacc aaggagtctt gggctgcaga tatcatcttt gctgagcggg cttattccgc 120
agtggttttt gacagccttg ttaattttgt gtgccacacc tgcttcaaga ggcaggagaa 180
gctccatcgc tgtgggcagt gcaagtttgc ccattactgc gaccgcacct gccagaagga 240
tgcttggtg aaccacaaga atgaatgttc ggccatcaag agatatggga aggtgcccaa 300
tgagaacatc aggtctggcg cgcgcatcat gtggagggtg gagagagaag gcaccgggct 360
cacggagggc tgcttgggt ccgtggacga cttgcagaac cacttgggagc actttgggga 420
ggaggagcag aaggacctgc ggggtggact ggacacattc ttgcagtact ggccggcgca 480
gagccagcag ttacagcatgc agtacatctc gcacatcttc ggagtgatta actgcaacgg 540
ttttactctc agtgatcaga gaggcctgca cagcgtgggg cgtaaggatc tttccccacc 600
tggggctggt gaaccatgac tgttggccca actgtaactg gcaaatttta caatgggcat 660
cctgagggca ttgaaatccc aaggttcatt accaagattg ggaatttgag cctccggggc 720
ccttaggg

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728

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<210> 48
<211> 1158
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 5578191CB1

<400> 48
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cgagcagcgg ctggcacagg aggaggagaa tgagaaactc cgaggagaca cacgccagaa 120
gctgccccatg gacttgctgg tgctggagga tgagaagcac cacggggctc agagtgcagc 180
cctgcagaag gtgaagggcc aagagcgcgt gcgcaagacg tccctggacc tgcggcgagg 240
gatcatcgat gtgggcggga tccagaacct catcgagctg cggaagaaac gcaagcagaa 300
gaagcggggac gctctggccg cctcgcatga gccgccccca gagcccgagg agatcactgg 360
ccctgtggat gaggagacct tcctgaaagc tgcggtggag gggaaaatga aggtcattga 420
gaagtccctg gctgacgggg ggctcagccga cacgtgcgac cagttccgtc ggacagcact 480
gcaccgagct tccctggaag gccacatgga aatcctggag aagcttctag ataatggggc 540
cactgtggat ttccaggatc ggctggactg cacagccatg cattgggcct gccgcggggg 600
ccacttagag gtggtgaaac ttctgcaaag ccatggagca gacaccaatg tgagggataa 660
gctgctgagc accccgctgc acgtggcagt ccggacaggg caggtggaga ttgtggagca 720
ctttctatcc ctgggcctgg aaatcaatgc cagagacagg gaaggggata ctgccctgca 780
tgacgctgtg aggtcacaac gctacaaaat catcaaaactg ctgctcctgc atggggctga 840
catgatgacc aagaacctgg caggaaaagac cccgacggac ctggtgcagc tctggcaggg 900
tgataccggg cacgccctgg agcatcctga gccggggggt gagcataacg ggctggaggg 960
gcctaattgat agtgggcgag agacccctca gcctgtgcca gccagtgaa tgcgtgcccc 1020
agcccagcca gctaccagc ccctctctgt gtgcagccgg agggctcctaa gaatggctcc 1080
cggagctaac tgaggggcca gccttttttc tgcattgatcc aggagcacat accacaaact 1140
accacaataa aaaagctg 1158

<210> 49
<211> 70
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3601719CD1

<400> 49
Met Leu Glu Pro Ser Arg Gln Ile Ser Ile Phe Gln Trp Glu Pro
1 5 10 15
Phe Gly Gln Glu Gln Val Asn Pro Pro Glu Lys Asn Val Leu
20 25 30
Leu Lys Trp Arg Arg Val Phe Leu Pro Pro Arg Met Arg Arg Arg
35 40 45
Ser Gln Phe Gln Glu Arg Arg Asn Phe Gln Asp Leu Gln Ser Ile
50 55 60
Tyr Arg Lys Ser Arg Ile Leu Lys Val Asn
65 70

<210> 50
<211> 552
<212> PRT
<213> Homo sapiens

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<220>

<221> misc_feature

<223> Incyte ID No: 3445829CD1

<400> 50

Met	Ser	Thr	Phe	Gly	Tyr	Arg	Arg	Gly	Leu	Ser	Lys	Tyr	Glu	Ser
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Ile	Asp	Glu	Asp	Glu	Leu	Leu	Ala	Ser	Leu	Ser	Ala	Glu	Glu	Leu
				20					25					30
Lys	Glu	Leu	Glu	Arg	Glu	Leu	Glu	Asp	Ile	Glu	Pro	Asp	Arg	Asn
				35					40					45
Leu	Pro	Val	Gly	Leu	Arg	Gln	Lys	Ser	Leu	Thr	Glu	Lys	Thr	Pro
				50					55					60
Thr	Gly	Thr	Phe	Ser	Arg	Glu	Ala	Leu	Met	Ala	Tyr	Trp	Glu	Lys
				65					70					75
Glu	Ser	Gln	Lys	Leu	Leu	Glu	Lys	Glu	Arg	Leu	Gly	Glu	Cys	Gly
				80					85					90
Lys	Val	Ala	Glu	Asp	Lys	Glu	Glu	Ser	Glu	Glu	Glu	Leu	Ile	Phe
				95					100					105
Thr	Glu	Ser	Asn	Ser	Glu	Val	Ser	Glu	Glu	Val	Tyr	Thr	Glu	Glu
				110					115					120
Glu	Glu	Glu	Glu	Ser	Gln	Glu	Glu	Glu	Glu	Glu	Glu	Asp	Ser	Asp
				125					130					135
Glu	Glu	Glu	Arg	Thr	Ile	Glu	Thr	Ala	Lys	Gly	Ile	Asn	Gly	Thr
				140					145					150
Val	Asn	Tyr	Asp	Ser	Val	Asn	Ser	Asp	Asn	Ser	Lys	Pro	Lys	Ile
				155					160					165
Phe	Lys	Ser	Gln	Ile	Glu	Asn	Ile	Asn	Leu	Thr	Asn	Gly	Ser	Asn
				170					175					180
Gly	Arg	Asn	Thr	Glu	Ser	Pro	Ala	Ala	Ile	His	Pro	Cys	Gly	Asn
				185					190					195
Pro	Thr	Val	Ile	Glu	Asp	Ala	Leu	Asp	Lys	Ile	Lys	Ser	Asn	Asp
				200					205					210
Pro	Asp	Thr	Thr	Glu	Val	Asn	Leu	Asn	Asn	Ile	Glu	Asn	Ile	Thr
				215					220					225
Thr	Gln	Thr	Leu	Thr	Arg	Phe	Ala	Glu	Ala	Leu	Lys	Asp	Asn	Thr
				230					235					240
Val	Val	Lys	Thr	Phe	Ser	Leu	Ala	Asn	Thr	His	Ala	Asp	Asp	Ser
				245					250					255
Ala	Ala	Met	Ala	Ile	Ala	Glu	Met	Leu	Lys	Val	Asn	Glu	His	Ile
				260					265					270
Thr	Asn	Val	Asn	Val	Glu	Ser	Asn	Phe	Ile	Thr	Gly	Lys	Gly	Ile
				275					280					285
Leu	Ala	Ile	Met	Arg	Ala	Leu	Gln	His	Asn	Thr	Val	Leu	Thr	Glu
				290					295					300
Leu	Arg	Phe	His	Asn	Gln	Arg	His	Ile	Met	Gly	Ser	Gln	Val	Glu
				305					310					315
Met	Glu	Ile	Val	Lys	Leu	Leu	Lys	Glu	Asn	Thr	Thr	Leu	Leu	Arg
				320					325					330
Leu	Gly	Tyr	His	Phe	Glu	Leu	Pro	Gly	Pro	Arg	Met	Ser	Met	Thr
				335					340					345
Ser	Ile	Leu	Thr	Arg	Asn	Met	Asp	Lys	Gln	Arg	Gln	Lys	Arg	Leu
				350					355					360
Gln	Glu	Gln	Lys	Gln	Gln	Glu	Gly	Tyr	Asp	Gly	Gly	Pro	Asn	Leu
				365					370					375
Arg	Thr	Lys	Val	Trp	Gln	Arg	Gly	Thr	Pro	Ser	Ser	Ser	Pro	Tyr

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Val	Ser	Pro	Arg	380	His	Ser	Pro	Trp	Ser	385	Ser	Pro	Lys	Leu	Pro	Lys	390
				395						400							405
Lys	Val	Gln	Thr	410	Val	Arg	Ser	Arg	Pro	415	Leu	Ser	Pro	Val	Ala	Thr	420
Pro	Pro	Pro	Pro	425	Pro	Pro	Pro	Pro	Pro	430	Pro	Pro	Pro	Pro	Ser	Ser	435
Gln	Arg	Leu	Pro	440	Pro	Pro	Pro	Pro	Pro	445	Pro	Pro	Pro	Pro	Leu	Pro	450
Glu	Lys	Lys	Leu	455	Ile	Thr	Arg	Asn	Ile	460	Ala	Glu	Val	Ile	Lys	Gln	465
Gln	Glu	Ser	Ala	470	Gln	Arg	Ala	Leu	Gln	475	Asn	Gly	Gln	Lys	Lys	Lys	480
Lys	Gly	Lys	Lys	485	Val	Lys	Lys	Gln	Pro	490	Asn	Ser	Ile	Leu	Lys	Glu	495
Ile	Lys	Asn	Ser	500	Leu	Arg	Ser	Val	Gln	505	Glu	Lys	Lys	Met	Glu	Asp	510
Ser	Ser	Arg	Pro	515	Ser	Thr	Pro	Gln	Arg	520	Ser	Ala	His	Glu	Asn	Leu	525
Met	Glu	Ala	Ile	530	Arg	Gly	Ser	Ser	Ile	535	Lys	Gln	Leu	Lys	Arg	Val	540
Ser	Asn	Gln	Arg	545	Thr	Asp	Ile	Gly	Ala	550	Gln	Ile	Lys				

<210> 51

<211> 260

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2837330CD1

<400> 51

Met	Ser	Leu	Leu	Trp	Thr	Pro	Lys	Gly	Lys	Met	Arg	Leu	Gln	Ala			
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Glu	Lys	Leu	Asn	Lys	Ala	Pro	Gln	Gly	Gly	Ile	Gly	Thr	Ala	Ala			
				20					25					30			
Val	Arg	Pro	Lys	Ser	Leu	Ala	Ile	Ser	Ser	Ser	Leu	Val	Ser	Asp			
				35					40					45			
Val	Val	Arg	Pro	Lys	Thr	Gln	Gly	Thr	Asp	Leu	Lys	Thr	Ser	Ser			
				50					55					60			
His	Pro	Glu	Met	Leu	His	Gly	Met	Ala	Pro	Gln	Gln	Lys	His	Gly			
				65					70					75			
Gln	Gln	Tyr	Lys	Thr	Lys	Ser	Ser	Tyr	Lys	Ala	Phe	Ala	Ala	Phe			
				80					85					90			
Pro	Thr	Asn	Thr	Leu	Leu	Leu	Glu	Gln	Lys	Thr	Pro	Thr	Thr	Leu			
				95					100					105			
Pro	Arg	Ala	Ala	Gly	Arg	Glu	Thr	Lys	Tyr	Ala	Asn	Leu	Ser	Ser			
				110					115					120			
Pro	Thr	Ser	Thr	Val	Ser	Glu	Ser	Gln	Leu	Thr	Lys	Pro	Gly	Val			
				125					130					135			
Ile	Arg	Pro	Val	Pro	Val	Lys	Ser	Arg	Ile	Leu	Leu	Lys	Lys	Glu			
				140					145					150			
Glu	Glu	Val	Tyr	Glu	Pro	Asn	Pro	Phe	Ser	Lys	Tyr	Leu	Glu	Asp			
				155					160					165			

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Asn	Ser	Asp	Leu	Phe	Ser	Glu	Gln	Asp	Val	Thr	Val	Pro	Pro	Lys
				170					175					180
Pro	Val	Ser	Leu	His	Pro	Leu	Tyr	Gln	Thr	Lys	Leu	Tyr	Pro	Pro
				185					190					195
Ala	Lys	Ser	Leu	Leu	His	Pro	Gln	Thr	Leu	Ser	His	Ala	Asp	Cys
				200					205					210
Leu	Ala	Pro	Gly	Pro	Phe	Ser	His	Leu	Ser	Phe	Ser	Leu	Ser	Asp
				215					220					225
Glu	Gln	Glu	Asn	Ser	His	Thr	Leu	Leu	Ser	His	Asn	Ala	Cys	Asn
				230					235					240
Lys	Leu	Ser	His	Pro	Met	Val	Ala	Ile	Pro	Glu	His	Glu	Ala	Leu
				245					250					255
Asp	Ser	Lys	Glu	Gln										
				260										

<210> 52

<211> 364

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1737459CD1

<400> 52

Met	Ser	Ala	Asn	Ser	Ser	Arg	Val	Gly	Gln	Leu	Leu	Leu	Gln	Gly
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Ser	Ala	Cys	Ile	Arg	Trp	Lys	Gln	Asp	Val	Glu	Gly	Ala	Ile	Tyr
				20					25					30
His	Leu	Ala	Asn	Cys	Leu	Leu	Leu	Leu	Gly	Phe	Met	Gly	Gly	Ser
				35					40					45
Gly	Val	Tyr	Gly	Cys	Phe	Tyr	Leu	Phe	Gly	Phe	Leu	Ser	Ala	Gly
				50					55					60
Tyr	Leu	Cys	Cys	Val	Leu	Trp	Gly	Trp	Phe	Ser	Ala	Cys	Gly	Leu
				65					70					75
Asp	Ile	Val	Leu	Trp	Ser	Phe	Leu	Leu	Ala	Val	Val	Cys	Leu	Leu
				80					85					90
Gln	Leu	Ala	His	Leu	Val	Tyr	Arg	Leu	Arg	Glu	Asp	Thr	Leu	Pro
				95					100					105
Glu	Glu	Phe	Asp	Leu	Leu	Tyr	Lys	Thr	Leu	Cys	Leu	Pro	Leu	Gln
				110					115					120
Val	Pro	Leu	Gln	Thr	Tyr	Lys	Glu	Ile	Val	His	Cys	Cys	Glu	Glu
				125					130					135
Gln	Val	Leu	Thr	Leu	Ala	Thr	Glu	Gln	Thr	Tyr	Ala	Val	Glu	Gly
				140					145					150
Glu	Thr	Pro	Ile	Asn	Arg	Leu	Ser	Leu	Leu	Leu	Ser	Gly	Arg	Val
				155					160					165
Arg	Val	Ser	Gln	Asp	Gly	Gln	Phe	Leu	His	Tyr	Ile	Phe	Pro	Tyr
				170					175					180
Gln	Phe	Met	Asp	Ser	Pro	Glu	Trp	Glu	Ser	Leu	Gln	Pro	Ser	Glu
				185					190					195
Glu	Gly	Val	Phe	Gln	Val	Thr	Leu	Thr	Ala	Glu	Thr	Ser	Cys	Ser
				200					205					210
Tyr	Ile	Ser	Trp	Pro	Arg	Lys	Ser	Leu	His	Leu	Leu	Leu	Thr	Lys
				215					220					225
Glu	Arg	Tyr	Ile	Ser	Cys	Leu	Phe	Ser	Ala	Leu	Leu	Gly	Tyr	Asp

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Ile Ser Glu Lys	230	Leu Tyr Thr Leu Asn	235	Lys Leu Phe Ala	240
	245		250		255
Phe Gly Leu Arg	260	Phe Asp Ile Arg Leu	265	Pro Ser Leu Tyr His	270
	275		280		285
Leu Gly Pro Thr	290	Ala Ala Asp Ala Gly	295	Pro Glu Ser Glu Lys	300
	305		310		315
Asp Glu Glu Val	320	Cys Glu Pro Ala Val	325	Pro Pro Gln Ala Thr	330
	335		340		345
Pro Thr Ser Leu	350	Gln Gln Thr Pro Pro	355	Cys Ser Thr Pro Pro	360
Thr Thr Asn Phe		Pro Ala Pro Pro Thr		Arg Ala Arg Leu Ser	
Pro Asp Ser Gly		Ile Leu Ala Ser Arg		Pro Leu Gln Ser Tyr	
Ser Gln Val Ile		Ser Arg Gly Gln Ala		Pro Leu Ala Pro Thr	
Thr Pro Glu Leu					

<210> 53
 <211> 527
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 058201CD1

<400> 53

Met Glu Cys Leu Val	Ala Asp Lys Gln Asn	Phe His Lys Ser Cys
1	5	10
Phe Arg Cys His His	Cys Asn Ser Lys Leu	Ser Leu Gly Asn Tyr
	20	25
Ala Ser Leu His Gly	Gln Ile Tyr Cys Lys	Pro His Phe Lys Gln
	35	40
Leu Phe Lys Ser Lys	Gly Asn Tyr Asp Glu	Gly Phe Gly His Lys
	50	55
Gln His Lys Asp Arg	Trp Asn Cys Lys Asn	Gln Ser Arg Ser Val
	65	70
Asp Phe Ile Pro Asn	Glu Glu Pro Asn Met	Cys Lys Asn Ile Ala
	80	85
Glu Asn Thr Leu Val	Pro Gly Asp Arg Asn	Glu His Leu Asp Ala
	95	100
Gly Asn Ser Glu Gly	Gln Arg Asn Asp Leu	Arg Lys Leu Gly Glu
	110	115
Arg Gly Lys Leu Lys	Val Ile Trp Pro Pro	Ser Lys Glu Ile Pro
	125	130
Lys Lys Thr Leu Pro	Phe Glu Glu Glu Leu	Lys Met Ser Lys Pro
	140	145
Lys Trp Pro Pro Glu	Met Thr Thr Leu Leu	Ser Pro Glu Phe Lys
	155	160
Ser Glu Ser Leu Leu	Glu Asp Val Arg Thr	Pro Glu Asn Lys Gly
	170	175
Gln Arg Gln Asp His	Phe Pro Phe Leu Gln	Pro Tyr Leu Gln Ser
	185	190

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Thr	His	Val	Cys	Gln	Lys	Glu	Asp	Val	Ile	Gly	Ile	Lys	Glu	Met	
				200					205					210	
Lys	Met	Pro	Glu	Gly	Arg	Lys	Asp	Glu	Lys	Lys	Glu	Gly	Arg	Lys	
				215					220					225	
Asn	Val	Gln	Asp	Arg	Pro	Ser	Glu	Ala	Glu	Asp	Thr	Lys	Ser	Asn	
				230					235					240	
Arg	Lys	Ser	Ala	Met	Asp	Leu	Asn	Asp	Asn	Asn	Asn	Val	Ile	Val	
				245					250					255	
Gln	Ser	Ala	Glu	Lys	Glu	Lys	Asn	Glu	Lys	Thr	Asn	Gln	Thr	Asn	
				260					265					270	
Gly	Ala	Glu	Val	Leu	Gln	Val	Thr	Asn	Thr	Asp	Asp	Glu	Met	Met	
				275					280					285	
Pro	Glu	Asn	His	Lys	Glu	Asn	Leu	Asn	Lys	Asn	Asn	Asn	Asn	Asn	
				290					295					300	
Tyr	Val	Ala	Val	Ser	Tyr	Leu	Asn	Asn	Cys	Arg	Gln	Lys	Thr	Ser	
				305					310					315	
Ile	Leu	Glu	Phe	Leu	Asp	Leu	Leu	Pro	Leu	Ser	Ser	Glu	Ala	Asn	
				320					325					330	
Asp	Thr	Ala	Asn	Glu	Tyr	Glu	Ile	Glu	Lys	Leu	Glu	Asn	Thr	Ser	
				335					340					345	
Arg	Ile	Ser	Glu	Leu	Leu	Gly	Ile	Phe	Glu	Ser	Glu	Lys	Thr	Tyr	
				350					355					360	
Ser	Arg	Asn	Val	Leu	Ala	Met	Ala	Leu	Lys	Lys	Gln	Thr	Asp	Arg	
				365					370					375	
Ala	Ala	Ala	Gly	Ser	Pro	Val	Gln	Pro	Ala	Pro	Lys	Pro	Ser	Leu	
				380					385					390	
Ser	Arg	Gly	Leu	Met	Val	Lys	Gly	Gly	Ser	Ser	Ile	Ile	Ser	Pro	
				395					400					405	
Asp	Thr	Asn	Leu	Leu	Asn	Ile	Lys	Gly	Ser	His	Ser	Lys	Ser	Lys	
				410					415					420	
Asn	Leu	His	Phe	Phe	Phe	Ser	Asn	Thr	Val	Lys	Ile	Thr	Ala	Phe	
				425					430					435	
Ser	Lys	Lys	Asn	Glu	Asn	Ile	Phe	Asn	Cys	Asp	Leu	Ile	Asp	Ser	
				440					445					450	
Val	Asp	Gln	Ile	Lys	Asn	Met	Pro	Cys	Leu	Asp	Leu	Arg	Glu	Phe	
				455					460					465	
Gly	Lys	Asp	Val	Lys	Pro	Trp	His	Val	Glu	Thr	Thr	Glu	Ala	Ala	
				470					475					480	
Arg	Asn	Asn	Glu	Asn	Thr	Gly	Phe	Asp	Ala	Leu	Ser	His	Glu	Cys	
				485					490					495	
Thr	Ala	Lys	Pro	Leu	Phe	Pro	Arg	Val	Glu	Val	Gln	Ser	Glu	Gln	
				500					505					510	
Leu	Thr	Val	Glu	Glu	Gln	Ile	Lys	Arg	Asn	Arg	Cys	Tyr	Ser	Asp	
				515					520					525	
Thr	Glu														

<210> 54
 <211> 82
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 5449893CD1

PB-0009-1 CIP

<400> 54

Met	Ser	Gln	Ala	Gly	Ala	Gln	Glu	Ala	Pro	Ile	Lys	Lys	Lys	Arg
1				5					10					15
Pro	Pro	Val	Lys	Glu	Glu	Asp	Leu	Lys	Gly	Ala	Arg	Gly	Asn	Leu
				20					25					30
Thr	Lys	Asn	Gln	Glu	Ile	Lys	Ser	Lys	Thr	Tyr	Gln	Val	Met	Arg
				35					40					45
Glu	Cys	Glu	Gln	Ala	Gly	Ser	Ala	Ala	Pro	Ser	Val	Phe	Ser	Arg
				50					55					60
Thr	Arg	Thr	Gly	Thr	Glu	Thr	Val	Phe	Glu	Lys	Pro	Lys	Ala	Gly
				65					70					75
Pro	Thr	Lys	Ser	Val	Phe	Gly								
				80										

<210> 55

<211> 302

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 282977CD1

<400> 55

Met	Asn	Val	Gln	Pro	Cys	Ser	Arg	Cys	Gly	Tyr	Gly	Val	Tyr	Pro
1				5					10					15
Ala	Glu	Lys	Ile	Ser	Cys	Ile	Asp	Gln	Ile	Trp	His	Lys	Ala	Cys
				20					25					30
Phe	His	Cys	Glu	Val	Cys	Lys	Met	Met	Leu	Ser	Val	Asn	Asn	Phe
				35					40					45
Val	Ser	His	Gln	Lys	Lys	Pro	Tyr	Cys	His	Ala	His	Asn	Pro	Lys
				50					55					60
Asn	Asn	Thr	Phe	Thr	Ser	Val	Tyr	His	Thr	Pro	Leu	Asn	Leu	Asn
				65					70					75
Val	Arg	Thr	Phe	Pro	Glu	Ala	Ile	Ser	Gly	Ile	His	Asp	Gln	Glu
				80					85					90
Asp	Gly	Glu	Gln	Cys	Lys	Ser	Val	Phe	His	Trp	Asp	Met	Lys	Ser
				95					100					105
Lys	Asp	Lys	Glu	Gly	Ala	Pro	Asn	Arg	Gln	Pro	Leu	Ala	Asn	Glu
				110					115					120
Arg	Ala	Tyr	Trp	Thr	Gly	Tyr	Gly	Glu	Gly	Asn	Ala	Trp	Cys	Pro
				125					130					135
Gly	Ala	Leu	Pro	Asp	Pro	Glu	Ile	Val	Arg	Met	Val	Glu	Ala	Arg
				140					145					150
Lys	Ser	Leu	Gly	Glu	Glu	Tyr	Thr	Glu	Asp	Tyr	Glu	Gln	Pro	Arg
				155					160					165
Gly	Lys	Gly	Ser	Phe	Pro	Ala	Met	Ile	Thr	Pro	Ala	Tyr	Gln	Arg
				170					175					180
Ala	Lys	Lys	Ala	Asn	Gln	Leu	Ala	Ser	Gln	Val	Glu	Tyr	Lys	Arg
				185					190					195
Gly	His	Asp	Glu	Arg	Ile	Ser	Arg	Phe	Ser	Thr	Val	Ala	Asp	Thr
				200					205					210
Pro	Glu	Leu	Leu	Arg	Ser	Lys	Ala	Gly	Ala	Gln	Leu	Gln	Ser	Asp
				215					220					225
Val	Arg	Tyr	Thr	Glu	Asp	Tyr	Glu	Gln	Gln	Arg	Gly	Lys	Gly	Ser
				230					235					240

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Phe	Pro	Ala	Met	Ile	Thr	Pro	Ala	Tyr	Gln	Ile	Ala	Lys	Arg	Ala	
				245					250						255
Asn	Glu	Leu	Ala	Ser	Asp	Val	Arg	Tyr	His	Gln	Gln	Tyr	Gln	Lys	
				260					265						270
Glu	Met	Arg	Gly	Met	Ala	Gly	Pro	Ala	Ile	Gly	Ala	Glu	Gly	Ile	
				275					280						285
Leu	Thr	Arg	Glu	Cys	Ala	Asp	Gln	Tyr	Gly	His	Gly	Tyr	Pro	Glu	
				290					295						300
Glu	Tyr														

<210> 56
<211> 193
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3178454CD1

Met	Asn	Thr	Ser	Phe	Ser	Asp	Ile	Glu	Leu	Leu	Glu	Asp	Ser	Gly	
1				5					10					15	
Ile	Pro	Thr	Glu	Ala	Phe	Leu	Ala	Ser	Cys	Cys	Ala	Val	Val	Pro	
				20					25					30	
Val	Leu	Asp	Lys	Leu	Gly	Pro	Thr	Val	Phe	Ala	Pro	Val	Lys	Met	
				35					40					45	
Asp	Leu	Val	Glu	Asn	Ile	Lys	Lys	Val	Asn	Gln	Lys	Tyr	Ile	Thr	
				50					55					60	
Asn	Lys	Glu	Glu	Phe	Thr	Thr	Leu	Gln	Lys	Ile	Val	Leu	His	Glu	
				65					70					75	
Val	Glu	Ala	Asp	Val	Ala	Gln	Val	Arg	Asn	Ser	Ala	Thr	Glu	Ala	
				80					85					90	
Leu	Leu	Trp	Leu	Lys	Arg	Gly	Leu	Lys	Phe	Leu	Lys	Gly	Phe	Leu	
				95					100					105	
Thr	Glu	Val	Lys	Asn	Gly	Glu	Lys	Asp	Ile	Gln	Thr	Ala	Leu	Asn	
				110					115					120	
Asn	Ala	Tyr	Gly	Lys	Thr	Leu	Arg	Gln	His	His	Gly	Trp	Val	Val	
				125					130					135	
Arg	Gly	Val	Phe	Ala	Leu	Ala	Leu	Arg	Ala	Thr	Pro	Ser	Tyr	Glu	
				140					145					150	
Asp	Phe	Val	Ala	Ala	Leu	Thr	Val	Lys	Glu	Gly	Asp	His	Arg	Lys	
				155					160					165	
Glu	Ala	Phe	Ser	Ile	Gly	Met	Gln	Arg	Asp	Leu	Ser	Leu	Tyr	Leu	
				170					175					180	
Pro	Ala	Met	Lys	Lys	Gln	Met	Ala	Ile	Leu	Asp	Ala	Leu			
				185					190						

<210> 57
<211> 174
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 4152861CD1

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<400> 57

Met	Ser	Asn	Gly	Tyr	Arg	Thr	Leu	Ser	Gln	His	Leu	Asn	Asp	Leu
1				5					10					15
Lys	Lys	Glu	Asn	Phe	Ser	Leu	Lys	Leu	Arg	Ile	Tyr	Phe	Leu	Glu
				20					25					30
Glu	Arg	Met	Gln	Gln	Lys	Tyr	Glu	Ala	Ser	Arg	Glu	Asp	Ile	Tyr
				35					40					45
Lys	Arg	Asn	Thr	Glu	Leu	Lys	Val	Glu	Val	Glu	Ser	Leu	Lys	Arg
				50					55					60
Glu	Leu	Gln	Asp	Lys	Lys	Gln	His	Leu	Asp	Lys	Thr	Trp	Ala	Asp
				65					70					75
Val	Glu	Asn	Leu	Asn	Ser	Gln	Asn	Glu	Ala	Glu	Leu	Arg	Arg	Gln
				80					85					90
Phe	Glu	Glu	Arg	Gln	Gln	Glu	Thr	Glu	His	Val	Tyr	Glu	Leu	Leu
				95					100					105
Glu	Asn	Lys	Met	Gln	Leu	Leu	Gln	Glu	Glu	Ser	Arg	Leu	Ala	Lys
				110					115					120
Asn	Glu	Ala	Ala	Arg	Met	Ala	Ala	Leu	Val	Glu	Ala	Glu	Lys	Glu
				125					130					135
Cys	Asn	Leu	Glu	Leu	Ser	Glu	Lys	Leu	Lys	Gly	Val	Thr	Lys	Asn
				140					145					150
Trp	Glu	Asp	Val	Pro	Gly	Asp	Gln	Val	Lys	Pro	Asp	Gln	Tyr	Thr
				155					160					165
Glu	Ala	Leu	Ala	Gln	Arg	Asp	Lys	Ile						
				170										

<210> 58

<211> 230

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3009303CD1

<400> 58

Met	Val	Gly	Val	Arg	Glu	Pro	Leu	Val	Phe	Arg	Val	Asp	Ala	Arg
1				5					10					15
Gly	Ser	Val	Asp	Trp	Ala	Ala	Ser	Gly	Met	Gly	Ser	Leu	Glu	Glu
				20					25					30
Glu	Gly	Thr	Met	Glu	Glu	Ala	Gly	Glu	Glu	Glu	Gly	Glu	Asp	Gly
				35					40					45
Asp	Ala	Phe	Val	Thr	Glu	Glu	Ser	Gln	Asp	Thr	His	Ser	Leu	Gly
				50					55					60
Asp	Arg	Asp	Pro	Lys	Ile	Leu	Thr	His	Asn	Gly	Arg	Met	Leu	Thr
				65					70					75
Leu	Ala	Asp	Leu	Glu	Asp	Tyr	Val	Pro	Gly	Glu	Gly	Glu	Thr	Phe
				80					85					90
His	Cys	Gly	Gly	Pro	Gly	Pro	Gly	Ala	Pro	Asp	Asp	Pro	Pro	Cys
				95					100					105
Glu	Val	Ser	Val	Ile	Gln	Arg	Glu	Ile	Gly	Glu	Pro	Thr	Val	Gly
				110					115					120
Gln	Pro	Val	Leu	Leu	Ser	Val	Gly	His	Ala	Leu	Gly	Pro	Arg	Gly
				125					130					135
Pro	Leu	Gly	Leu	Phe	Arg	Pro	Glu	Pro	Arg	Gly	Ala	Ser	Pro	Pro
				140					145					150

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Gly	Pro	Gln	Val	Arg	Ser	Leu	Glu	Gly	Thr	Ser	Phe	Leu	Leu	Arg
				155					160					165
Glu	Ala	Pro	Ala	Arg	Pro	Val	Gly	Ser	Ala	Pro	Trp	Thr	Gln	Ser
				170					175					180
Phe	Cys	Thr	Arg	Ile	Arg	Arg	Ser	Ala	Asp	Ser	Gly	Gln	Ser	Ser
				185					190					195
Phe	Thr	Thr	Glu	Leu	Ser	Thr	Gln	Thr	Val	Asn	Phe	Gly	Thr	Val
				200					205					210
Gly	Glu	Thr	Val	Thr	Leu	His	Ile	Cys	Pro	Asp	Arg	Asp	Gly	Asp
				215					220					225
Glu	Ala	Ala	Gln	Pro										
				230										

<210> 59

<211> 915

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 4151935CD1

<400> 59

Met	Pro	Leu	Phe	Glu	Ala	Glu	Glu	Gly	Val	Leu	Ser	Arg	Thr	Gln
1				5					10					15
Ile	Phe	Pro	Thr	Thr	Ile	Lys	Val	Ile	Asp	Pro	Glu	Phe	Leu	Glu
				20					25					30
Glu	Pro	Pro	Ala	Leu	Ala	Phe	Leu	Tyr	Lys	Asp	Leu	Tyr	Glu	Glu
				35					40					45
Ala	Val	Gly	Glu	Lys	Lys	Lys	Glu	Glu	Glu	Thr	Ala	Ser	Glu	Gly
				50					55					60
Asp	Ser	Val	Asn	Ser	Glu	Ala	Ser	Phe	Pro	Ser	Arg	Asn	Ser	Asp
				65					70					75
Thr	Asp	Asp	Gly	Thr	Gly	Ile	Tyr	Phe	Glu	Lys	Tyr	Ile	Leu	Lys
				80					85					90
Asp	Asp	Ile	Leu	His	Asp	Thr	Ser	Leu	Thr	Gln	Lys	Asp	Gln	Gly
				95					100					105
Gln	Gly	Leu	Glu	Glu	Lys	Arg	Val	Gly	Lys	Asp	Asp	Ser	Tyr	Gln
				110					115					120
Pro	Ile	Ala	Ala	Glu	Gly	Glu	Ile	Trp	Gly	Lys	Phe	Gly	Thr	Ile
				125					130					135
Cys	Arg	Glu	Lys	Ser	Leu	Glu	Glu	Gln	Lys	Gly	Val	Tyr	Gly	Glu
				140					145					150
Gly	Glu	Ser	Val	Asp	His	Val	Glu	Thr	Val	Gly	Asn	Val	Ala	Met
				155					160					165
Gln	Lys	Lys	Ala	Pro	Ile	Thr	Glu	Asp	Val	Arg	Val	Ala	Thr	Gln
				170					175					180
Lys	Ile	Ser	Tyr	Ala	Val	Pro	Phe	Glu	Asp	Thr	His	His	Val	Leu
				185					190					195
Glu	Arg	Ala	Asp	Glu	Ala	Gly	Ser	His	Gly	Asn	Glu	Val	Gly	Asn
				200					205					210
Ala	Ser	Pro	Glu	Val	Asn	Leu	Asn	Val	Pro	Val	Gln	Val	Ser	Phe
				215					220					225
Pro	Glu	Glu	Glu	Phe	Ala	Ser	Gly	Ala	Thr	His	Val	Gln	Glu	Thr
				230					235					240
Ser	Leu	Glu	Glu	Pro	Lys	Ile	Leu	Val	Pro	Pro	Glu	Pro	Ser	Glu

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Glu Arg Leu Arg	245	250	255
Asn Ser Pro Val Gln Asp Glu Tyr Glu Phe Thr	260	265	270
Glu Ser Leu His Asn Glu Val Val Pro Gln Asp Ile Leu Ser Glu	275	280	285
Glu Leu Ser Ser Glu Ser Thr Pro Glu Asp Val Leu Ser Gln Gly	290	295	300
Lys Glu Ser Phe Glu His Ile Ser Glu Asn Glu Phe Ala Ser Glu	305	310	315
Ala Glu Gln Ser Thr Pro Ala Glu Gln Lys Glu Leu Gly Ser Glu	320	325	330
Arg Lys Glu Glu Asp Gln Leu Ser Ser Glu Val Val Thr Glu Lys	335	340	345
Ala Gln Lys Glu Leu Lys Lys Ser Gln Ile Asp Thr Tyr Cys Tyr	350	355	360
Thr Cys Lys Cys Pro Ile Ser Ala Thr Asp Lys Val Phe Gly Thr	365	370	375
His Lys Asp His Glu Val Ser Thr Leu Asp Thr Ala Ile Ser Ala	380	385	390
Val Lys Val Gln Leu Ala Glu Phe Leu Glu Asn Leu Gln Glu Lys	395	400	405
Ser Leu Arg Ile Glu Ala Phe Val Ser Glu Ile Glu Ser Phe Phe	410	415	420
Asn Thr Ile Glu Glu Asn Cys Ser Lys Asn Glu Lys Arg Leu Glu	425	430	435
Glu Gln Asn Glu Glu Met Met Lys Lys Val Leu Ala Gln Tyr Asp	440	445	450
Glu Lys Ala Gln Ser Phe Glu Glu Val Lys Lys Lys Lys Met Glu	455	460	465
Phe Leu His Glu Gln Met Val His Phe Leu Gln Ser Met Asp Thr	470	475	480
Ala Lys Asp Thr Leu Glu Thr Ile Val Arg Glu Ala Glu Glu Leu	485	490	495
Asp Glu Ala Val Phe Leu Thr Ser Phe Glu Glu Ile Asn Glu Arg	500	505	510
Leu Leu Ser Ala Met Glu Ser Thr Ala Ser Leu Glu Lys Met Pro	515	520	525
Ala Ala Phe Ser Leu Phe Glu His Tyr Asp Asp Ser Ser Ala Arg	530	535	540
Ser Asp Gln Met Leu Lys Gln Val Ala Val Pro Gln Pro Pro Arg	545	550	555
Leu Glu Pro Gln Glu Pro Asn Ser Ala Thr Ser Thr Thr Ile Ala	560	565	570
Val Tyr Trp Ser Met Asn Lys Glu Asp Val Ile Asp Ser Phe Gln	575	580	585
Val Tyr Cys Met Glu Glu Pro Gln Asp Asp Gln Glu Val Asn Glu	590	595	600
Leu Val Glu Glu Tyr Arg Leu Thr Val Lys Glu Ser Tyr Cys Ile	605	610	615
Phe Glu Asp Leu Glu Pro Asp Arg Cys Tyr Gln Val Trp Val Met	620	625	630
Ala Val Asn Phe Thr Gly Cys Ser Leu Pro Ser Glu Arg Ala Ile	635	640	645
Phe Arg Thr Ala Pro Ser Thr Pro Val Ile Arg Ala Glu Asp Cys	650	655	660
Thr Val Cys Trp Asn Thr Ala Thr Ile Arg Trp Arg Pro Thr Thr			

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Pro	Glu	Ala	Thr	665	Glu	Thr	Tyr	Thr	Leu	670	Glu	Tyr	Cys	Arg	Gln	His	675
Ser	Pro	Glu	Gly	680	Glu	Gly	Leu	Arg	Ser	685	Phe	Ser	Gly	Ile	Lys	Gly	690
Leu	Gln	Leu	Lys	695	Val	Asn	Leu	Gln	Pro	700	Asn	Asp	Asn	Tyr	Phe	Phe	705
Tyr	Val	Arg	Ala	710	Ile	Asn	Ala	Phe	Gly	715	Thr	Ser	Glu	Gln	Ser	Glu	720
Ala	Ala	Leu	Ile	725	Ser	Thr	Arg	Gly	Thr	730	Arg	Phe	Leu	Leu	Leu	Arg	735
Glu	Thr	Ala	His	740	Pro	Ala	Leu	His	Ile	745	Ser	Ser	Ser	Gly	Thr	Val	750
Ile	Ser	Phe	Gly	755	Glu	Arg	Arg	Arg	Leu	760	Thr	Glu	Ile	Pro	Ser	Val	765
Leu	Gly	Glu	Glu	770	Leu	Pro	Ser	Cys	Gly	775	Gln	His	Tyr	Trp	Glu	Thr	780
Thr	Val	Thr	Asp	785	Cys	Pro	Ala	Tyr	Arg	790	Leu	Gly	Ile	Cys	Ser	Ser	795
Ser	Ala	Val	Gln	800	Ala	Gly	Ala	Leu	Gly	805	Gln	Gly	Glu	Thr	Ser	Trp	810
Tyr	Met	His	Cys	815	Ser	Glu	Pro	Gln	Arg	820	Tyr	Thr	Phe	Phe	Tyr	Ser	825
Gly	Ile	Val	Ser	830	Asp	Val	His	Val	Thr	835	Glu	Arg	Pro	Ala	Arg	Val	840
Gly	Ile	Leu	Leu	845	Tyr	Asn	Asn	Gln	Gln	850	Arg	Leu	Ile	Phe	Ile	Asn	855
Ala	Glu	Ser	Glu	860	Gln	Leu	Leu	Phe	Ile	865	Ile	Arg	His	Arg	Phe	Asn	870
Glu	Gly	Val	His	875	Pro	Ala	Phe	Ala	Leu	880	Glu	Lys	Pro	Gly	Lys	Cys	885
Thr	Leu	His	Leu	890	Gly	Ile	Glu	Pro	Pro	895	Asp	Ser	Val	Arg	His	Lys	900
				905						910							915

<210> 60

<211> 163

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3012947CD1

<400> 60

Met	Ala	Leu	Glu	Gln	Lys	Glu	Leu	Asp	Gln	Glu	Pro	Gly	Ala	Gly			
1				5					10					15			
Leu	Asp	Ser	Leu	Ile	Arg	Thr	Gly	Ser	Ser	Cys	Gln	Asn	Pro	Gly			
				20					25					30			
Cys	Asp	Ala	Val	Tyr	Gln	Gly	Pro	Glu	Ser	Asp	Ala	Thr	Pro	Cys			
				35					40					45			
Thr	Tyr	His	Pro	Gly	Ala	Pro	Arg	Phe	His	Glu	Gly	Met	Lys	Ser			
				50					55					60			
Trp	Ser	Cys	Cys	Gly	Ile	Gln	Thr	Leu	Asp	Phe	Gly	Ala	Phe	Leu			
				65					70					75			
Ala	Gln	Pro	Gly	Cys	Arg	Val	Gly	Arg	His	Asp	Trp	Gly	Lys	Gln			

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80	85	90
Leu Pro Ala Ser Cys Arg His Asp Trp	His Gln Thr Asp Ser Leu	
95	100	105
Val Val Val Thr Val Tyr Gly Gln Ile	Pro Leu Pro Ala Phe Asn	
110	115	120
Trp Val Lys Ala Ser Gln Thr Glu Leu	His Val His Ile Val Phe	
125	130	135
Asp Gly Asn Arg Val Phe Gln Ala Gln	Met Lys Leu Trp Gly Val	
140	145	150
Ser Glu Asp Gln Gly Thr Gln Glu Trp	Glu Ala Asp Gly	
155	160	

<210> 61

<211> 201

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3009806CD1

<400> 61

Met Glu Asn Val Glu Val Phe Thr Ala Glu Gly Lys Gly Arg Gly		
1	5	10
Leu Lys Ala Thr Lys Glu Phe Trp Ala Ala Asp Ile Ile Phe Ala		
20	25	30
Glu Arg Ala Tyr Ser Ala Val Val Phe Asp Ser Leu Val Asn Phe		
35	40	45
Val Cys His Thr Cys Phe Lys Arg Gln Glu Lys Leu His Arg Cys		
50	55	60
Gly Gln Cys Lys Phe Ala His Tyr Cys Asp Arg Thr Cys Gln Lys		
65	70	75
Asp Ala Trp Leu Asn His Lys Asn Glu Cys Ser Ala Ile Lys Arg		
80	85	90
Tyr Gly Lys Val Pro Asn Glu Asn Ile Arg Leu Ala Ala Arg Ile		
95	100	105
Met Trp Arg Val Glu Arg Glu Gly Thr Gly Leu Thr Glu Gly Cys		
110	115	120
Leu Val Ser Val Asp Asp Leu Gln Asn His Val Glu His Phe Gly		
125	130	135
Glu Glu Glu Gln Lys Asp Leu Arg Val Asp Val Asp Thr Phe Leu		
140	145	150
Gln Tyr Trp Pro Ala Gln Ser Gln Gln Phe Ser Met Gln Tyr Ile		
155	160	165
Ser His Ile Phe Gly Val Ile Asn Cys Asn Gly Phe Thr Leu Ser		
170	175	180
Asp Gln Arg Gly Leu His Ser Val Gly Arg Lys Asp Leu Ser Pro		
185	190	195
Pro Gly Ala Gly Glu Pro		
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Gln	Arg	Leu	Ala	Gln	Glu	Glu	Glu	Asn	Glu	Lys	Leu	Arg	Gly	Asp
				20					25					30
Thr	Arg	Gln	Lys	Leu	Pro	Met	Asp	Leu	Leu	Val	Leu	Glu	Asp	Glu
				35					40					45
Lys	His	His	Gly	Ala	Gln	Ser	Ala	Ala	Leu	Gln	Lys	Val	Lys	Gly
				50					55					60
Gln	Glu	Arg	Val	Arg	Lys	Thr	Ser	Leu	Asp	Leu	Arg	Arg	Glu	Ile
				65					70					75
Ile	Asp	Val	Gly	Gly	Ile	Gln	Asn	Leu	Ile	Glu	Leu	Arg	Lys	Lys
				80					85					90
Arg	Lys	Gln	Lys	Lys	Arg	Asp	Ala	Leu	Ala	Ala	Ser	His	Glu	Pro
				95					100					105
Pro	Pro	Glu	Pro	Glu	Glu	Ile	Thr	Gly	Pro	Val	Asp	Glu	Glu	Thr
				110					115					120
Phe	Leu	Lys	Ala	Ala	Val	Glu	Gly	Lys	Met	Lys	Val	Ile	Glu	Lys
				125					130					135
Phe	Leu	Ala	Asp	Gly	Gly	Ser	Ala	Asp	Thr	Cys	Asp	Gln	Phe	Arg
				140					145					150
Arg	Thr	Ala	Leu	His	Arg	Ala	Ser	Leu	Glu	Gly	His	Met	Glu	Ile
				155					160					165
Leu	Glu	Lys	Leu	Leu	Asp	Asn	Gly	Ala	Thr	Val	Asp	Phe	Gln	Asp
				170					175					180
Arg	Leu	Asp	Cys	Thr	Ala	Met	His	Trp	Ala	Cys	Arg	Gly	Gly	His
				185					190					195
Leu	Glu	Val	Val	Lys	Leu	Leu	Gln	Ser	His	Gly	Ala	Asp	Thr	Asn
				200					205					210
Val	Arg	Asp	Lys	Leu	Leu	Ser	Thr	Pro	Leu	His	Val	Ala	Val	Arg
				215					220					225
Thr	Gly	Gln	Val	Glu	Ile	Val	Glu	His	Phe	Leu	Ser	Leu	Gly	Leu
				230					235					240
Glu	Ile	Asn	Ala	Arg	Asp	Arg	Glu	Gly	Asp	Thr	Ala	Leu	His	Asp
				245					250					255
Ala	Val	Arg	Leu	Asn	Arg	Tyr	Lys	Ile	Ile	Lys	Leu	Leu	Leu	Leu
				260					265					270
His	Gly	Ala	Asp	Met	Met	Thr	Lys	Asn	Leu	Ala	Gly	Lys	Thr	Pro
				275					280					285
Thr	Asp	Leu	Val	Gln	Leu	Trp	Gln	Ala	Asp	Thr	Arg	His	Ala	Leu
				290					295					300
Glu	His	Pro	Glu	Pro	Gly	Ala	Glu	His	Asn	Gly	Leu	Glu	Gly	Pro
				305					310					315
Asn	Asp	Ser	Gly	Arg	Glu	Thr	Pro	Gln	Pro	Val	Pro	Ala	Gln	
				320					325					